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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/686,384		10/14/2003	Masayuki Tobita	14157-014001	14157-014001 6325	
26161	7590	10/17/2006		EXAMINER		
FISH & RI	CHARD	SON PC		WU, SHEAN CHIU		
P.O. BOX 10 MINNEAPO		N 55440-1022		ART UNIT PAPER NUMB		
Will Will Co	, , , , , , ,			1756		
				DATE MAILED: 10/17/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			V
	Application No.	Applicant(s)	
	10/686,384	TOBITA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Shean C. Wu	1756	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence address	••
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may not will apply and will expire SIX (6) Mo ute, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 28	July 2006 and 29 August	<u>2006</u> .	
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal ma	atters, prosecution as to the merit	s is
closed in accordance with the practice under	r Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.	
Disposition of Claims	`		
4) Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdrest solution 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3-7 is/are rejected. 7) Claim(s) 2 and 8-12 is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami			
10) The drawing(s) filed on is/are: a) a		·	•
Applicant may not request that any objection to the	- · ·)4 <i>(</i> -1)
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a lie	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No In received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		v Summary (PTO-413) o(s)/Mail Date	•
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>8/29/06</u>. 		f Informal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Jester et al. (US 5,529,740).

The reference discloses a process for treating a film made by extrusion molding a polymer capable of forming an optically anisotropic melt phase, which comprises the steps of: heating said film, while contacting at least one surface of said film with a supporting body, to a temperature sufficient to melt said polymer; cooling the melted polymer to form a solidified polymer layer; and separating said solidified polymer layer from said supporting body. The reference film has an excellent resistance to heat and chemicals.

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The reference liquid crystal polymers are shown in Table 5, particularly in (a), which comprises terephthalic acid, ethylene glycol and hydroxybenzoic acid. The degree of orientation (%) = $[(180-ø_1)/180] \times 100$ is the same as equation 1 of the present invention (see col. 10, lines 3-31). The results of the reference examples by X-ray diffractometry having degree of planar orientation from 0.65 to 0.69 and degree of thickness orientation from 0.71 to 0.80 are encompassed by the present claims. Therefore, the reference anticipates the claimed invention.

It is noted that Claim 5 is a product claim not a process claim. The reference liquid crystal polymers have degree of planar orientation from 0.65 to 0.69, which anticipates the claimed invention.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jester et al. (US 5,529,740).

The reference did not disclose the claimed product having heat conductivity in a range between 0.7 W/(m.K) and 20 W/(m.K). Because the reference examples having similar materials of the present invention, it would have been obvious to those skilled in the art to expect the reference examples having the similar heat conductivity.

Allowable Subject Matter

5. Claims 2 and 8-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

- 6. Applicant's arguments filed 7/28/06, with respect to the rejections in the previous office action have been fully considered and are persuasive. Therefore, the rejections have been withdrawn. However, upon further consideration, new grounds of rejection are made in view of Jester et al. (US 5,529,740) cited above sections 3-4.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C. Wu whose telephone number is 571-272-1393. The examiner can normally be reached on 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SHEAN C. WU PRIMARY EXAMINER